

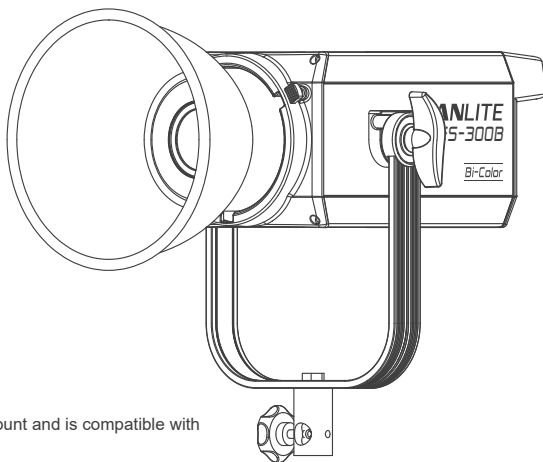
**NANLITE**

***FS-300B***  
USER MANUAL

Guangdong NanGuang Photo&Video Systems Co., Ltd

# FS-300B LED Bi-color Spot Light

## ■ Product Diagram



## ■ Technical Data

Rated Power: 350W

Input voltage/current: AC100-240V  
50/60Hz

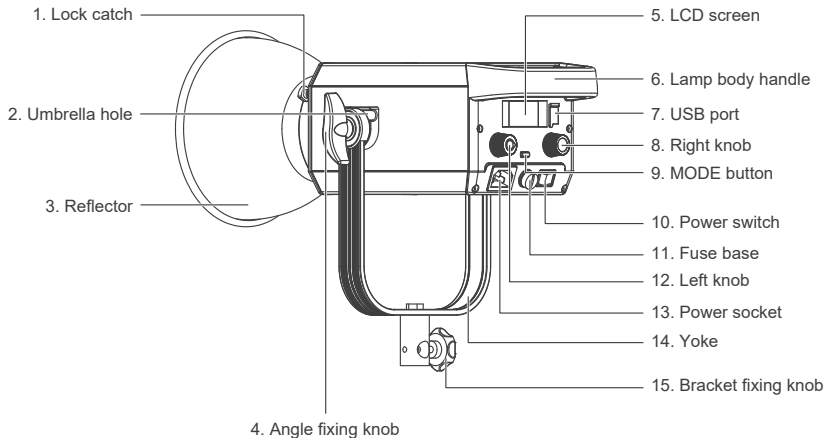
Color Temperature: 2700K-6500K

CRI: Average 96

TLCI: Average 97

The FS-300B comes with Bowens mount and is compatible with Bowens mount accessories.

# Product Details

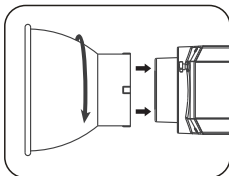


## ■ Detailed Description

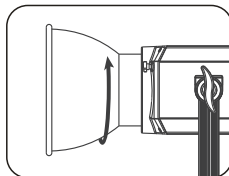
1. Lock catch: For installing and disassembling reflector and other accessories.
2. Umbrella hole: For installing/removing an umbrella.
3. Reflector: For gathering light to improve the central illumination.
4. Angle fixing knob: Allows for adjusting and fixing the direction of light in tilt.
5. LCD screen: For displaying the data.
6. Lamp body handle: Be convenient for users to lift the lamps and adjust the direction of the light.
7. USB port: For updating the firmware.
8. Right knob: For selecting options and adjusting the color temperature under CCT mode.
9. MODE button: For switching between EFFECT mode, CCT mode and MENU.
10. Power switch: For switching on/off the fixture.
11. Fuse base: For placing the fuse.
12. Left knob: For adjusting the DIM and scrolling through different selections.
13. Power socket: AC power input socket.
14. Yoke: Designed for connecting the lamp to the light stand and adjusting the direction of light.
15. Bracket fixing knob: For locking the light fixture and stand, and adjusting the horizontal direction of light.

## Usage

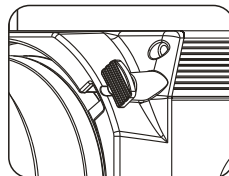
### 1. Installation of the Reflector



When installing the reflector, ensure its mounting points align with the slots on the light fixture. When the mounting points and slots are aligned, push the reflector in place and rotate it in the direction shown on the light until it clicks into place.



When removing the reflector, push and hold the lock catch and rotate until the reflector is free to be removed from the fixture.

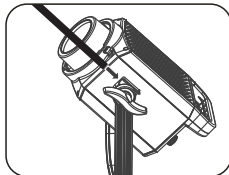


Press lock catch to release the reflector.

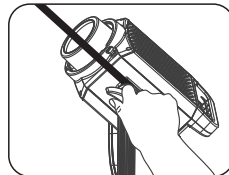
### 2. Installation of an Umbrella



Loosen the angle fixing knob.



Put the umbrella into the umbrella hole.



Tighten the angle fixing knob to lock the umbrella in place.

### 3. 2.4G and Bluetooth Remote Control

The FS-300B is able to be remotely controlled by 2.4G remote controller, or by NANLINK APP via the WS-TB-1 transmitter box or via Bluetooth directly.

Note: 1. 2.4G remote controller and transmitter box are sold separately.

2. The fixture supports the 2.4G wireless protocol V1.0 and V2.0. Please set fixture to V2.0 while using WS-RC-C1 or WS-RC-C2 remote controller. Please set fixture to V1.0 while using other remote controllers.



Press MODE button to enter the menu.



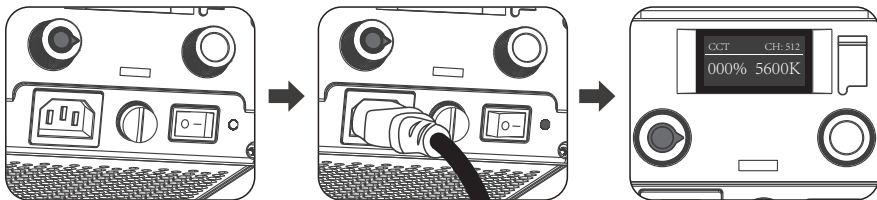
Rotate "Right knob" to WIRELESS PROTOCOL.



Rotate "Left knob" to select V1.0 or V2.0.

## Operating Instructions

1. First ensure that the power switch of the fixture is off. Now turn on the light, the LCD screen will display all the relevant information for the fixture.

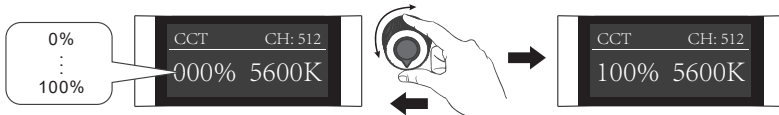


### 2. CCT Mode Setting

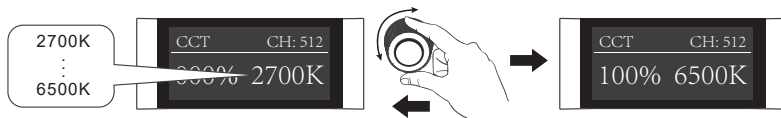
Press MODE button to CCT mode, rotate "Left knob" to set the DIM (DIM range: 000%...100%), rotate "Right knob" to set the color temperature (CCT range: 2700K...6500K).



Press MODE button to CCT mode.



Rotate "Left knob" to set the DIM.



rotate "Right knob" to set the color temperature.

Note: 1. In effect mode, DIM range is the same as the CCT MODE.

2. In effect mode, the color temperature is not synchronized with the color temperature in CCT mode, and the CCT adjustment range is the same as that in the CCT mode.

3. When the fixture function is unlocked, in any modes, press "Left knob" to turn off the light, the brightness percentage on the screen is 000% in this case. Press again to restore the light to its previous state, and press continuously to switch between on and off.

### 3. EFFECT Mode setting

Press MODE button to EFFECT MODE. The FS-300B has built-in effects including CCT LOOP, INT LOOP, FLASH, PULSE, STORM, TV, PAPARAZZI, CANDLE/FIRE, BAD BULB, FIREWORK, EXPLOSION and WELDING.

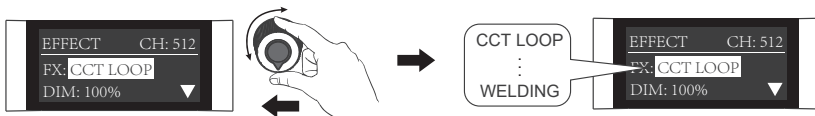


Press MODE button to EFFECT mode.



Rotate "Right knob" to FX.





Rotate "Left knob" to select the desired effect.

# ① CCT LOOP

CCT LOOP setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 02S...30S), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

## ②INP LOOP

INT LOOP setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 02S...30S), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

## ③FLASH

FLASH setting: rotate "Right knob" to select from DIM, CCT and INTERVALS (Range: 0.1S...10S), then rotate "Left knob" to adjust the value of DIM, CCT and INTERVALS.



Rotate "Right knob" to select from DIM, CCT and INTERVALS.



Rotate "Left knob" to adjust the value of DIM, CCT and INTERVALS.

#### ④PULSE

PULSE setting: rotate "Right knob" to select from DIM, CCT and PULSES/MIN (Range: 001...240), then rotate "Left knob" to adjust the value of DIM, CCT and PULSES/MIN.



Rotate "Right knob" to select from DIM, CCT and PULSES/MIN.



Rotate "Left knob" to adjust the value of DIM, CCT and PULSES/MIN.

## ⑤ STORM

STORM setting: rotate "Right knob" to select from DIM, CCT and INTERVALS (range: 1s ... 60s) , then rotate "Left knob" to adjust the value of DIM, CCT and INTERVALS.



Rotate "Right knob" to select from DIM, CCT and INTERVALS.



Rotate "Left knob" to adjust the value of DIM, CCT and INTERVALS.

## ⑥ TV

TV setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

### ⑦PAPARAZZI

PAPARAZZI setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

### ⑧CANDLE/FIRE

CANDLE/FIRE setting: rotate "Right knob" to select from DIM, CCT and (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

### ⑧BAD BULB

BAD BULB setting: rotate "Right knob" to select from DIM, CCT and SPD (Range: 001...100), then rotate "Left knob" to adjust the value of DIM, CCT and SPD.



Rotate "Right knob" to select from DIM, CCT and SPD.



Rotate "Left knob" to adjust the value of DIM, CCT and SPD.

#### ⑩FIREWORK

FIREWORK setting: rotate "Right knob" to select from DIM, CCT, SPD (Range: 001...100) and DECAY (Range: 001...100), then rotate "Left knob" to select from DIM, CCT, SPD and DECAY.



Rotate "Right knob" to select from DIM, CCT, SPD and DECAY.



Rotate "Left knob" to select from DIM, CCT, SPD and DECAY.

# ⑪EXPLOSION

EXPLOSION setting: rotate "Right knob" to select from DIM, CCT, SPD (Range: 001...100) and DECAY (Range: 001...100), then rotate "Left knob" to select from DIM ,CCT, SPD and DECAY.



Rotate "Right knob" to select from DIM, CCT, SPD and DECAY.



Rotate "Left knob" to select from DIM ,CCT, SPD and DECAY.

# ⑫WELDING

WELDING setting: rotate "Right knob" to select from DIM, CCT, SPD (Range: 001...100) and PAUSE (ON/OFF), then rotate "Left knob" to adjust the value of DIM, CCT, SPD and PAUSE.



Rotate "Right knob" to select from DIM, CCT, SPD and PAUSE.





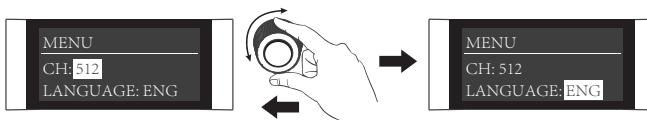
Rotate "Left knob" to adjust the value of DIM, CCT, SPD and PAUSE.

- Special effects may be upgraded based on the firmware update. Please refer to the latest firmware function description for reference.

#### 4. MENU setting



Press MODE button to MENU.

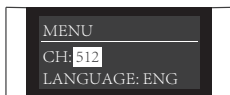


Press "Right knob" to select from CHANNEL, LANGUAGE, FAN, OUTPUT MODE, BLUETOOTH, WIRELESS PROTOCOL, FIRMWARE UPDATE and VERSION.

# ①CHANNEL



Press "Right knob" to MENU.

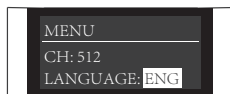
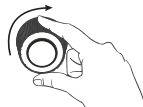


Rotate "Left knob" to set the channel.

# ②LANGUAGE



Press MODE button to MENU.



Rotate "Right knob" to the LANGUAGE and press in.



Rotate "Left knob" to select Chinese or English.

### ③FAN



Press MODE button to MENU.



Rotate "Right knob" to FAN.



Rotate "Left knob" to select ON or OFF.

Note: When the fan is turned on, the maximum output of the light will be 100%.

When the fan is turned off, the maximum output of the light will be 25%.

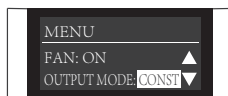
#### ④ OUTPUT MODE



Press MODE button to MENU.



Rotate "Right knob" to OUTPUT MODE.



Rotate "Left knob" to select MAX or CONSTANT.

#### ⑤ BLUETOOTH



Press MODE button to switch to the MENU.



Rotate "Right knob" to BT.



Press "Right knob" to the interface of bluetooth reset.



Rotate "Right knob" to select RESET.



Press "Right knob" to back to MENU.

## ⑥ WIRELESS PROTOCOL

Please refer to P5 for wireless protocol setting.

# ⑦FIRMWARE UPDATE

Insert the USB drive with latest firmware into the light fixture.



Press MODE button to MENU.



Rotate "Right knob" to FW UPDATE.



Press "Right knob" to enter the interface of firmware update.



Rotate "Right knob" to the select UPDATE.



Press "Right knob" to make update, it will show "FIRMWARE UPDATED" after the firmware update is finished.

### ⑧VERSION



Press MODE button to MENU.



Rotate "Right knob" to VERSION to check the firmware version.

⑨Long press the "Right knob" to lock all functions, then the current status can't be changed by any adjustment knobs.



Long press the "Right knob" to lock all functions.



Long press the "Right knob" again to release the lock status.


5. Please turn off the fixture when stop using it.

## Safety Precautions

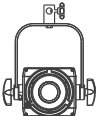

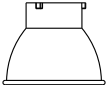


1. Please open the package to check for damage caused in transit, if damaged please do not use and contact place of purchase or manufacturer as soon as possible.
2. Please do not use a power cord with damaged insulation, do not unplug too hard or drag the power cord directly.
3. Make sure that the power supply voltage used matches the voltage designated by the light before installation.
4. Please turn the light off when it is not in use or before cleaning.
5. Please keep the light safely stored and away from children.



## Notice

1. Please take off the COB protective cap before using.
2. Please do not look directly at the emitter when the light is on .
3. Please wait 10 seconds to turn off the light fixture after any parameter setting in order to save it for future use.
4. Please do not place any objects on the light emitter or allow liquid to flow inside the fixture or the emitter.
5. Please do not place the light fixture near the flammable substances like alcohol or gasoline.
6. Please wipe off debris or dirt by using a cloth with clean water or neutral cleanser when cleaning the light.
7. The fixture should be used in dry and ventilated place and avoid being used in damp, dusty or overheated environment, also make sure the fan and the vents are not blocked or obstructed.
8. Any attempt to repair the fixture by yourself will void warranty, disassembling and repair can only be allowed when trained professionals are involved under strict protocol regulated in this manual.
9. For optimal cooling of the fixture, the vents should not be covered when using, or might result in damaging the equipment. The temperature on the fixture surface is high when using for a long time, please caution to prevent burns and scalds.

## What's in the box? Please kindly check

FS-300B x 1	Power Cable 4.5M x 1	Reflector x 1	COB Protective Cap x 1	User Manual x 1
				

## General Fault Detection and Diagnosis

Fault Detection	Diagnosis
The light won't boot up properly.	<ol style="list-style-type: none"> <li>1. Please check whether the power cable and outlet connection is properly connected or loose.</li> <li>2. Please check whether the voltage value is within the specified parameters.</li> </ol>
The fixture produces light, but the LCD display is not working.	Control board is damaged or connecting cables of control board fall off.
LCD display is on but no light output.	<ol style="list-style-type: none"> <li>1. Please check whether the DIM is set to zero.</li> <li>2. LED board or main board may be damaged.</li> <li>2. Please check whether the connecting cable of LED board fall off.</li> </ol>
The fixture has an abnormal flicker.	<ol style="list-style-type: none"> <li>1. Please check if there are any high temperature object near that make the operational environment temperature too high.</li> <li>2. Please check if the fixture is in any special effect mode.</li> </ol>
The inside fan can not work.	If the LCD screen displays "The fixture is overheated, please check the fixture!" that means the fan is damaged, please contact with place of purchase or manufacturer.
If the failure is not resolved after troubleshooting, please contact with place of purchase or manufacturer.	

This manual and all stats within it were produced under controlled conditions, and are accurate at time of print. Any future changes to design/technical data can be found at [www.nanlite.com](http://www.nanlite.com).

Version: V1 2022-04-19

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## FCC Warning

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.